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# Communications & System Management - Introduction

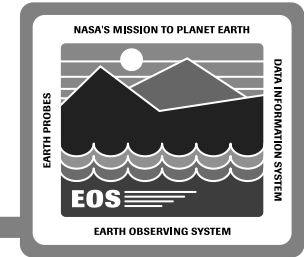
**Ed Lerner**

**System Design Review - 29 June 1994**

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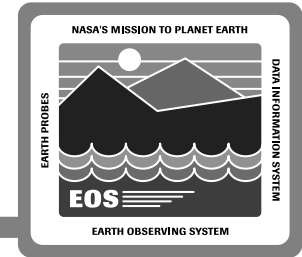


# Road Map



- **Purpose of CSMS briefing**
- **Role and Subsystems**
- **Subsystems and Open APIs**
- **Context**
- **Design Process**
- **Implementation Overview**
- **Road Map for Splinter Session**

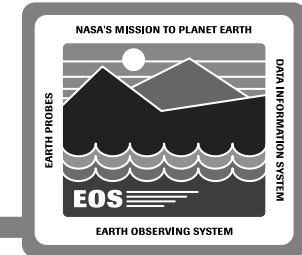
# Purpose of the CSMS Briefing



The next set of presentations demonstrates that CSMS:

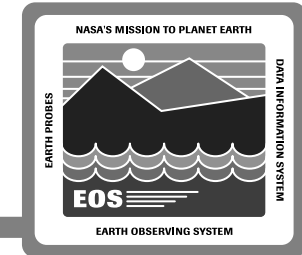
- provides the interoperability and management functions needed by SDPS and FOS
- has been iteratively refined into subsystems, service superclasses, and services, which have then been mapped into HW/SW CIs
- reflects trade studies and analyses, including the mapping of all major components to COTS categories and present/emerging standards
- satisfies the evolutionary needs of ECS and GCDIS
- has been mapped into the overall ECS release plan, with supporting prototyping of key concepts

# CSMS Role & Subsystems

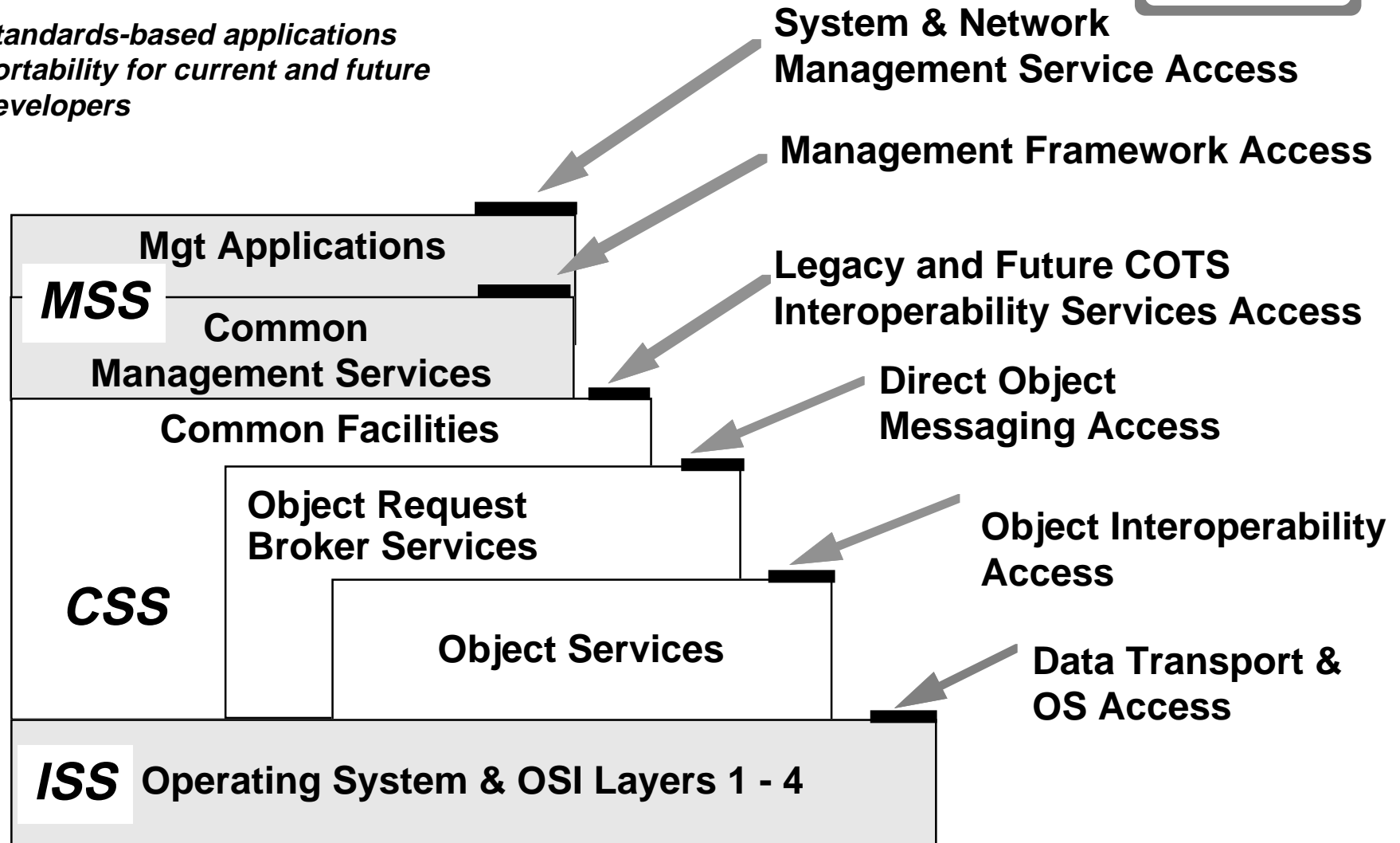


ECS Needs	CSMS Capability	CSMS Approach
<ul style="list-style-type: none"> <li>• Flexible interoperability between DAACs, FOS, other EOSDIS and GCDIS sites</li> <li>• Network connectivity within DAACs and FOS; between DAACs, FOS, and other EOSDIS and GCDIS sites</li> <li>• Effective and efficient management of all ECS resources; coordination with management functions of other EOSDIS &amp; GCDIS sites</li> <li>• Scalability / Evolvability</li> </ul>	<ul style="list-style-type: none"> <li>• Communications Subsystem (CSS)</li> <li>• Internetworking Subsystem (ISS)</li> <li>• Systems Management Subsystem (MSS)</li> <li>• Standards/COTS-based; federated and dynamically associated architecture</li> </ul>	<ul style="list-style-type: none"> <li>• Dynamic finding of, and binding to, services</li> <li>• Internet standard protocol stacks with high/low speed, LAN/WAN specializations</li> <li>• Federated enterprise management</li> <li>• Architecture based upon consortium-based, OO COTS and near COTS</li> </ul>

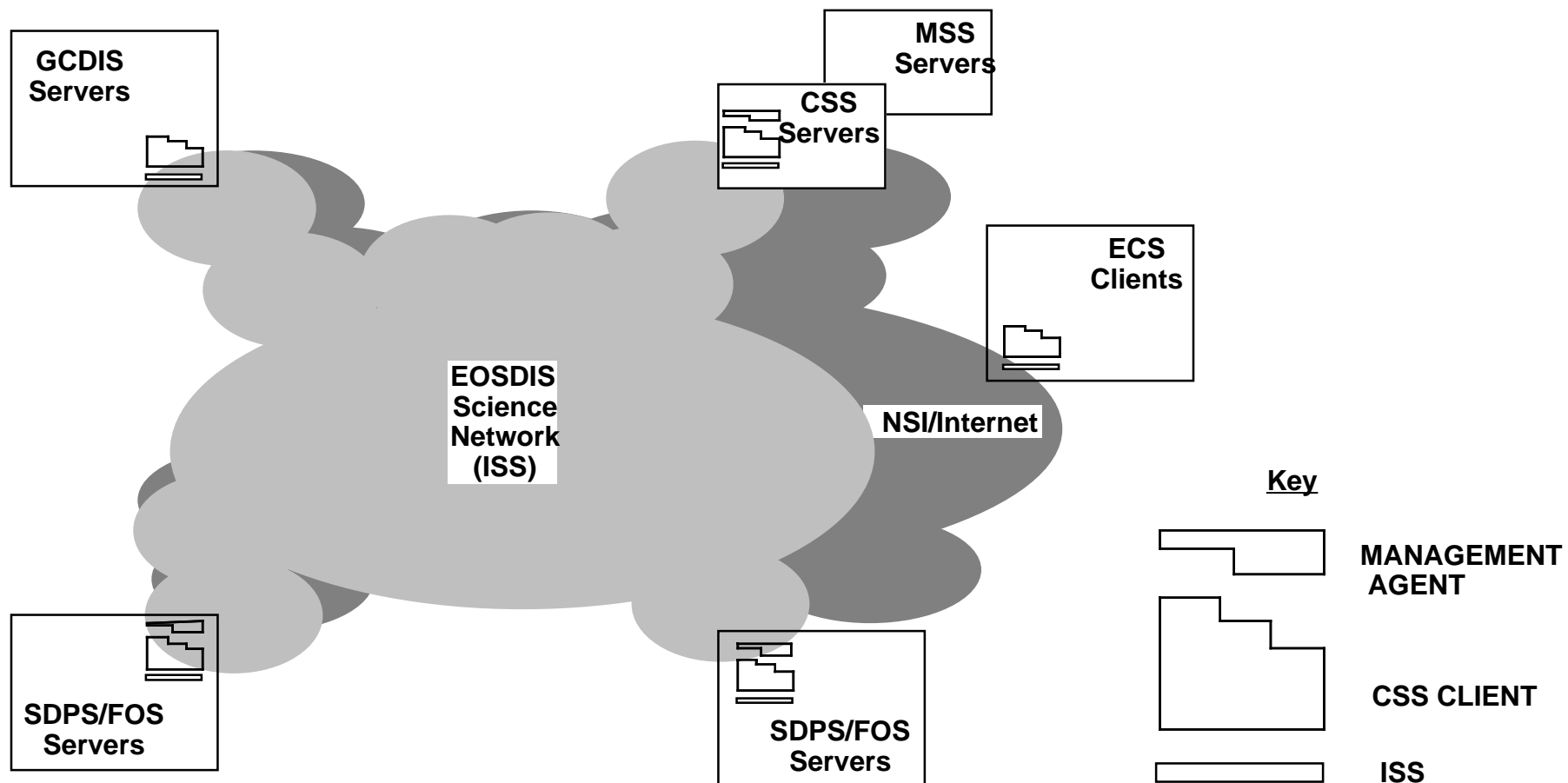
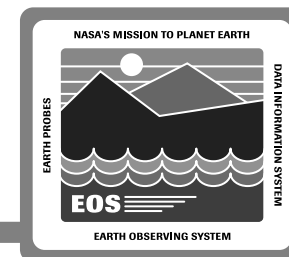
# CSMS Subsystems & Open APIs



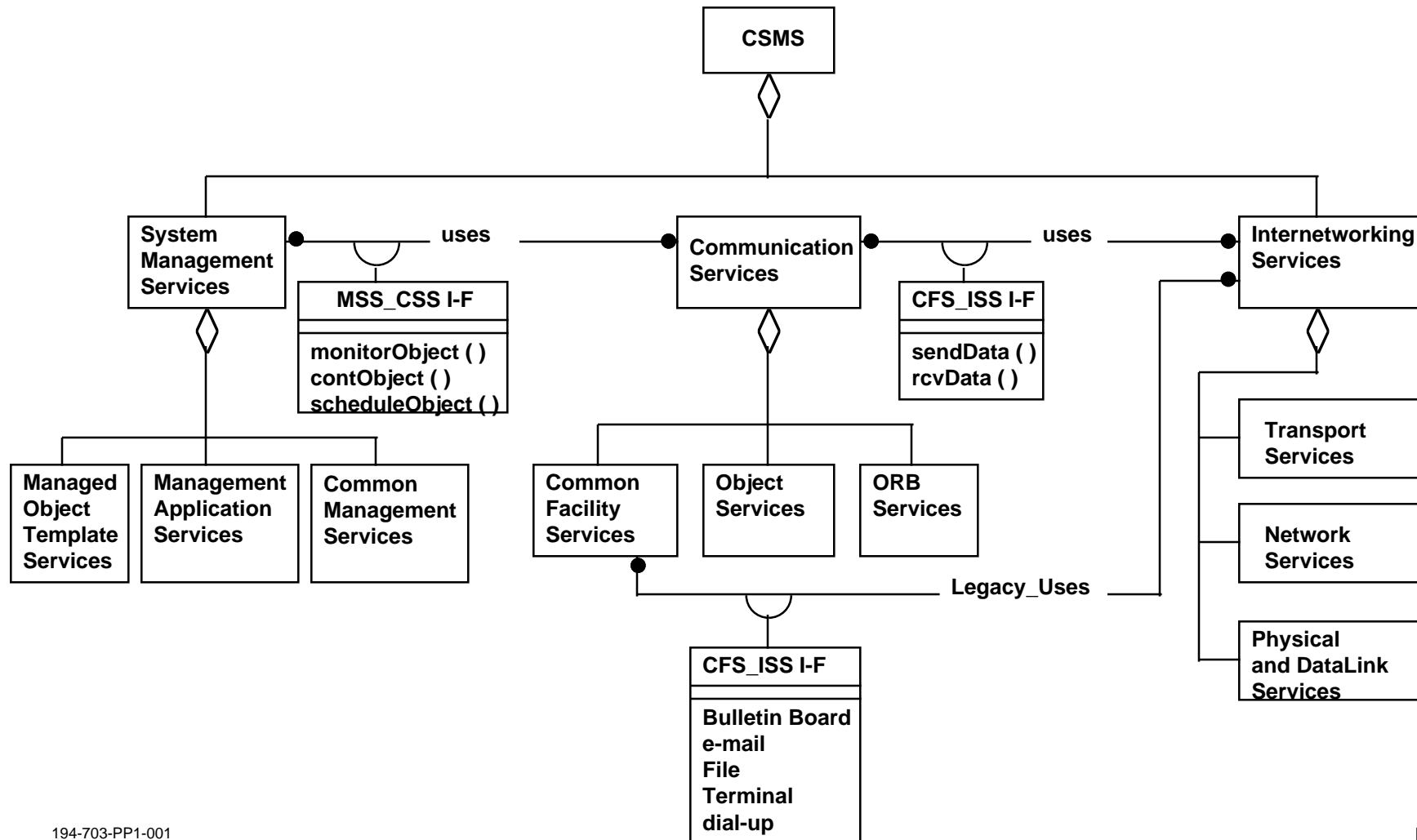
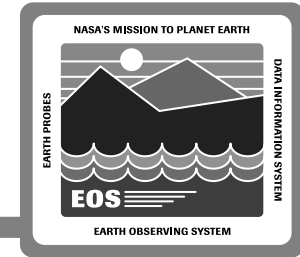
- *Standards-based applications portability for current and future developers*



# CSMS Context

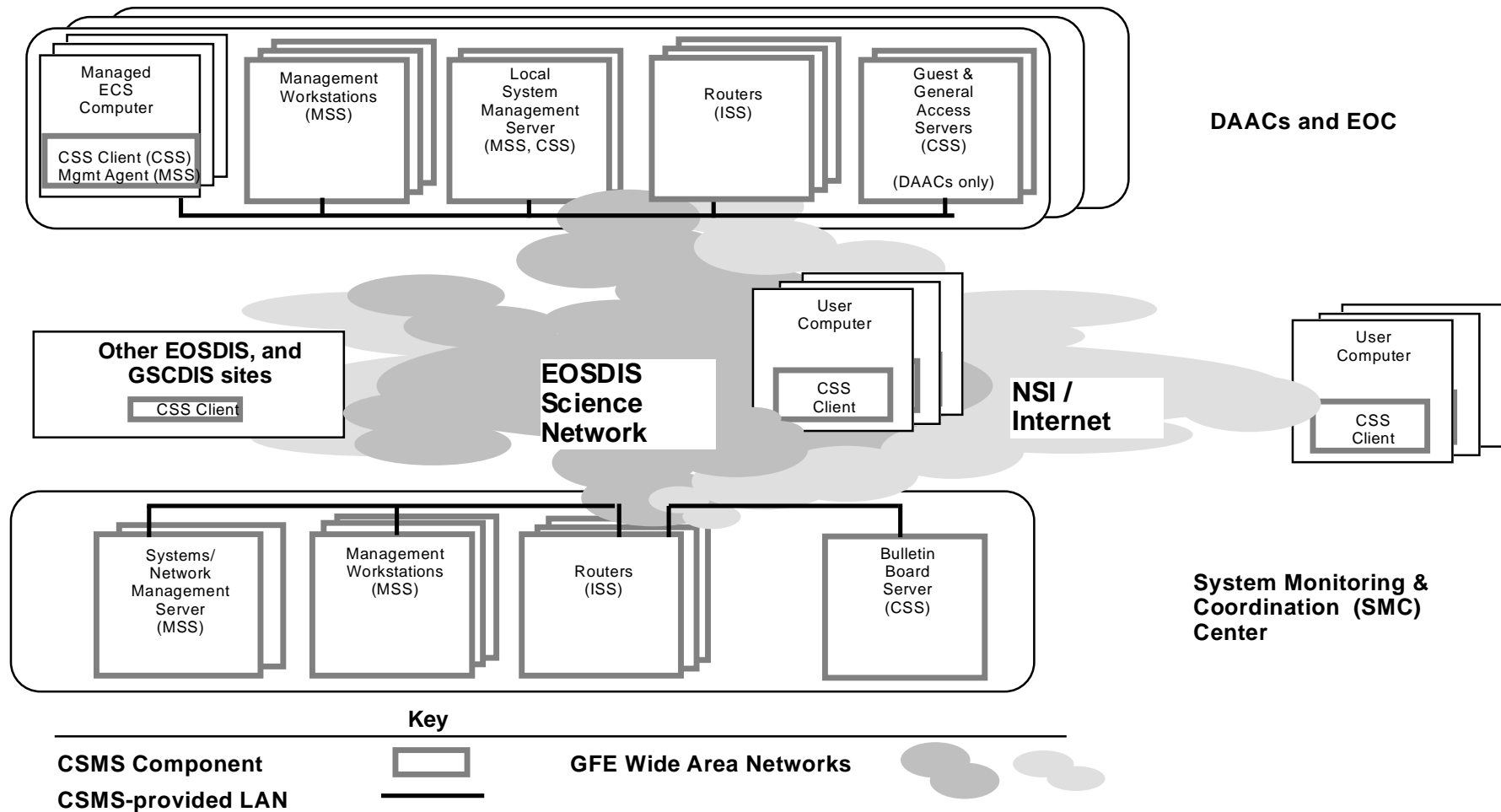
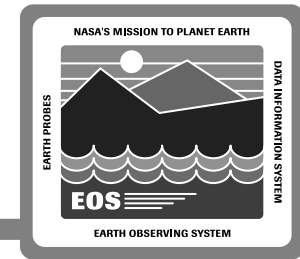


# Design Process: Sample OMT Drawing

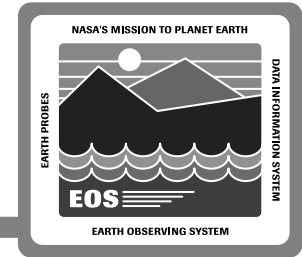


SDS-6.3.4

# CSMS Implementation Overview



# Road Map



- **Introduction**
- **Communications Subsystem**
- **CSMS Scenario**
- **Internetworking Subsystem**
- **System Management Subsystem**
- **Summary topics**